

What is claimed is:

1. A tray for selectably changing the temperature of its contents by mixing a first reactant with a second reactant, comprising:
 - a container body having a material chamber for containing said contents, said container body having a height and a width wherein said width is greater than said height, said container body having a bottom portion forming a first compartment and a top portion forming a second compartment for containing said contents; and
 - a thermic module disposed in said first compartment, said thermic module comprising an actuator, a piercing member movable between a retracted position and an extended position in response to a force placed on a portion of said actuator, a breakable barrier, a first reactant chamber containing said first reactant and a second reactant chamber containing said second reactant, said first and second reactant chambers separated from one another by said breakable barrier, wherein a distal end of said piercing member breaks said breakable barrier when said piercing member is in said extended position to allow mixing of said reactants.
2. The tray of claim 1 wherein said breakable barrier is adhesively attached to a top surface of said first reactant chamber.
3. The tray of claim 1 wherein said breakable barrier is attached to a top surface of said thermic module cap and also to the outside walls extending from said top surface.
4. The tray of claim 1 wherein said actuator comprises a wavy surface forming a bottom portion of said first reactant chamber and said actuator further comprises an

actuator button which is accessible through a hole in a bottom surface of said container body.

5. The tray of claim 1 wherein said tray is for heating one of solid, semi-solid or viscous food products.
6. The tray of claim 1 further comprising water contained in said first reactant chamber and calcium oxide contained within said second reactant chamber.
7. The tray of claim 1 further comprising at least one vent hole providing which vents gas produced by the mixing of said first and second reactants from inside said first and second reactant chambers to outside said first and second reactant chambers.
8. The tray of claim 7 wherein said at least one vent hole vents the gas to the interior of said container body surrounding said second compartment.
9. The tray of claim 8 wherein said first compartment at least partially surrounds said second compartment and there is an air gap between said first and second compartments in the area where said first compartment surrounds said second compartment.
10. The tray of claim 1 wherein said second compartment is configured to receive a separate container holding said contents by inserting said container into a cavity formed by said second compartment.
11. The tray of claim 10 wherein said container is held in said second compartment by a snap-fit in said cavity.
12. The tray of claim 1 wherein said the contents contained in said second compartment is accessed by opening a removable foil cover from the top of said second compartment.

13. The tray of claim 10 wherein said the contents contained in said container is accessed by opening a removable foil cover from the top of said container.
14. The tray of claim 1 wherein said the contents contained in said second compartment is accessed by opening a full panel pull-off from the top of said second compartment.
15. The tray of claim 10 wherein said the contents contained in said container is accessed by opening a pull panel pull-off from the top of said container.
16. The tray of claim 1 wherein said second compartment comprises at least one partition create at least two contents compartments and said thermic module is configured to heat each contents compartment at different heat levels.
17. The tray of claim 16 wherein at least one of said different heat levels is substantially no heat.
18. The tray of claim 1 further comprising an air space surrounding said second compartment and a flow path between said air space and one of said first or second reactant chambers such that gas formed by the mixing of said first and second reactants can flow into said air space thereby heating said contents.
19. The tray of claim 19 wherein said air space is bounded on the exterior of said air space by said container body and wherein contact with said container body cools the gas thereby reducing the gas pressure.